



3 September, 2003

Bruce Lewis
Environmental Resources Management
2525 Natomas Park Drive, Suite 350
Sacramento, CA 95833

RE: Aerojet RI/FS
Work Order: P308140

Enclosed are the results of analyses for samples received by the laboratory on 08/07/03 13:10. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Angelee Cari
Project Manager

CA ELAP Certificate #2374

Environmental Resources Management
2525 Natomas Park Drive, Suite 350
Sacramento CA, 95833Project: Aerojet RI/FS
Project Number: N/A
Project Manager: Bruce LewisP308140
Reported:
09/03/03 12:51**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
33D-SB01-1	P308140-01	Soil	08/07/03 08:34	08/07/03 13:10
33D-SB01-5	P308140-02	Soil	08/07/03 08:55	08/07/03 13:10
33D-SB01-10	P308140-03	Soil	08/07/03 09:37	08/07/03 13:10
33D-SB01-15	P308140-04	Soil	08/07/03 09:53	08/07/03 13:10
33D-SB01-20	P308140-05	Soil	08/07/03 10:05	08/07/03 13:10
33D-SB01-30	P308140-06	Soil	08/07/03 10:50	08/07/03 13:10
33D-SB01D-30	P308140-07	Soil	08/07/03 10:50	08/07/03 13:10
33D-SB01-35	P308140-08	Soil	08/07/03 11:15	08/07/03 13:10
33D-SB01-40	P308140-09	Soil	08/07/03 11:50	08/07/03 13:10
33D-SB01-45E	P308140-10	Water	08/07/03 11:58	08/07/03 13:10
33D-SB01-45	P308140-11	Soil	08/07/03 12:15	08/07/03 13:10

Environmental Resources Management
2525 Natomas Park Drive, Suite 350
Sacramento CA, 95833

Project: Aerojet RI/FS
Project Number: N/A
Project Manager: Bruce Lewis

P308140
Reported:
09/03/03 12:51

Tentatively Identified Compounds by GC/MS Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
33D-SB01-1 (P308140-01) Soil Sampled: 08/07/03 08:34 Received: 08/07/03 13:10										
No TICs found	ND		300	ug/kg	1	3080396	08/21/03	08/28/03	EPA 8270C	
33D-SB01-5 (P308140-02) Soil Sampled: 08/07/03 08:55 Received: 08/07/03 13:10										
No TICs found	ND		300	ug/kg	1	3080396	08/21/03	08/28/03	EPA 8270C	
33D-SB01-10 (P308140-03) Soil Sampled: 08/07/03 09:37 Received: 08/07/03 13:10										
No TICs found	ND		300	ug/kg	1	3080396	08/21/03	08/28/03	EPA 8270C	
33D-SB01-15 (P308140-04) Soil Sampled: 08/07/03 09:53 Received: 08/07/03 13:10										
No TICs found	ND		300	ug/kg	1	3080396	08/21/03	08/28/03	EPA 8270C	
33D-SB01-20 (P308140-05) Soil Sampled: 08/07/03 10:05 Received: 08/07/03 13:10										
No TICs found	ND		300	ug/kg	1	3080396	08/21/03	08/28/03	EPA 8270C	
33D-SB01-30 (P308140-06) Soil Sampled: 08/07/03 10:50 Received: 08/07/03 13:10										
No TICs found	ND		300	ug/kg	1	3080396	08/21/03	08/28/03	EPA 8270C	
33D-SB01D-30 (P308140-07) Soil Sampled: 08/07/03 10:50 Received: 08/07/03 13:10										
No TICs found	ND		300	ug/kg	1	3080396	08/21/03	08/28/03	EPA 8270C	
33D-SB01-35 (P308140-08) Soil Sampled: 08/07/03 11:15 Received: 08/07/03 13:10										
No TICs found	ND		300	ug/kg	1	3080396	08/21/03	08/28/03	EPA 8270C	
33D-SB01-40 (P308140-09) Soil Sampled: 08/07/03 11:50 Received: 08/07/03 13:10										
No TICs found	ND		300	ug/kg	1	3080396	08/21/03	08/28/03	EPA 8270C	

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Tentatively Identified Compounds by GC/MS

Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
33D-SB01-45E (P308140-10) Water Sampled: 08/07/03 11:58 Received: 08/07/03 13:10										
No TICs found	ND		10	ug/l	1	3080223	08/12/03	08/27/03	EPA 8270C	
33D-SB01-45 (P308140-11) Soil Sampled: 08/07/03 12:15 Received: 08/07/03 13:10										
No TICs found	ND		300	ug/kg	1	3080396	08/21/03	08/28/03	EPA 8270C	

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Semivolatile Organic Compounds by EPA Method 8270C

Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
33D-SB01-1 (P308140-01) Soil Sampled: 08/07/03 08:34 Received: 08/07/03 13:10										
Acenaphthene	ND	8.7	330	ug/kg	1	3080396	08/21/03	08/28/03	EPA 8270C	
Acenaphthylene	ND	7.6	330	"	"	"	"	"	"	
Anthracene	ND	14	330	"	"	"	"	"	"	
Azobenzene	ND	20	330	"	"	"	"	"	"	
Benzidine	ND	1700	1700	"	"	"	"	"	"	
Benzoic acid	ND	2.7	1700	"	"	"	"	"	"	
Benzo (a) anthracene	ND	7.6	330	"	"	"	"	"	"	
Benzo (b+k) fluoranthene (total)	ND	13	330	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	8.8	330	"	"	"	"	"	"	
Benzo (a) pyrene	ND	10	330	"	"	"	"	"	"	
Benzyl alcohol	ND	11	660	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	9.1	330	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	15	330	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	16	330	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	9.3	330	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	13	330	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	11	330	"	"	"	"	"	"	
4-Chloroaniline	ND	58	660	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	11	660	"	"	"	"	"	"	
2-Chloronaphthalene	ND	9.9	330	"	"	"	"	"	"	
2-Chlorophenol	ND	16	330	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	13	330	"	"	"	"	"	"	
Chrysene	ND	11	330	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	18	330	"	"	"	"	"	"	
Dibenzofuran	ND	9.6	330	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	12	330	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	16	330	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	14	330	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	15	330	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	44	660	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	15	330	"	"	"	"	"	"	
Diethyl phthalate	ND	14	330	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	36	330	"	"	"	"	"	"	
Dimethyl phthalate	ND	11	330	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	17	1700	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	10	1700	"	"	"	"	"	"	

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Semivolatile Organic Compounds by EPA Method 8270C

Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
33D-SB01-1 (P308140-01) Soil Sampled: 08/07/03 08:34 Received: 08/07/03 13:10										
2,4-Dinitrotoluene	ND	20	330	ug/kg	1	3080396	08/21/03	08/28/03	EPA 8270C	
2,6-Dinitrotoluene	ND	13	330	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	11	330	"	"	"	"	"	"	
Fluoranthene	ND	11	330	"	"	"	"	"	"	
Fluorene	ND	7.9	330	"	"	"	"	"	"	
Hexachlorobenzene	ND	15	330	"	"	"	"	"	"	
Hexachlorobutadiene	ND	17	330	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	10	330	"	"	"	"	"	"	
Hexachloroethane	ND	17	330	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	11	330	"	"	"	"	"	"	
Isophorone	ND	14	330	"	"	"	"	"	"	
2-Methylnaphthalene	ND	10	330	"	"	"	"	"	"	
2-Methylphenol	ND	16	330	"	"	"	"	"	"	
4-Methylphenol	ND	11	330	"	"	"	"	"	"	
Naphthalene	ND	13	330	"	"	"	"	"	"	
2-Nitroaniline	ND	17	1700	"	"	"	"	"	"	
3-Nitroaniline	ND	18	1700	"	"	"	"	"	"	
4-Nitroaniline	ND	22	1700	"	"	"	"	"	"	
Nitrobenzene	ND	16	330	"	"	"	"	"	"	
2-Nitrophenol	ND	14	330	"	"	"	"	"	"	
4-Nitrophenol	ND	23	1700	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	16	330	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	17	330	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	15	330	"	"	"	"	"	"	
Pentachlorophenol	ND	12	1700	"	"	"	"	"	"	
Phenanthrene	ND	14	330	"	"	"	"	"	"	
Phenol	ND	12	330	"	"	"	"	"	"	
Pyrene	ND	12	330	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	15	330	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	14	330	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	9.4	330	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		52 %	11-120			"	"	"	"	
Surrogate: Phenol-d6		64 %	16-130			"	"	"	"	
Surrogate: Nitrobenzene-d5		59 %	16-126			"	"	"	"	
Surrogate: 2-Fluorobiphenyl		67 %	28-134			"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		89 %	51-144			"	"	"	"	

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Semivolatile Organic Compounds by EPA Method 8270C

Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
33D-SB01-1 (P308140-01) Soil Sampled: 08/07/03 08:34 Received: 08/07/03 13:10										
<i>Surrogate: Terphenyl-d14</i>		106 %	64-119			3080396	08/21/03	08/28/03	EPA 8270C	
33D-SB01-5 (P308140-02) Soil Sampled: 08/07/03 08:55 Received: 08/07/03 13:10										
Acenaphthene	ND	8.7	330	ug/kg	1	3080396	08/21/03	08/28/03	EPA 8270C	
Acenaphthylene	ND	7.6	330	"	"	"	"	"	"	
Anthracene	ND	14	330	"	"	"	"	"	"	
Azobenzene	ND	20	330	"	"	"	"	"	"	
Benzidine	ND	1700	1700	"	"	"	"	"	"	
Benzoic acid	ND	2.7	1700	"	"	"	"	"	"	
Benzo (a) anthracene	ND	7.6	330	"	"	"	"	"	"	
Benzo (b+k) fluoranthene (total)	ND	13	330	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	8.8	330	"	"	"	"	"	"	
Benzo (a) pyrene	ND	10	330	"	"	"	"	"	"	
Benzyl alcohol	ND	11	660	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	9.1	330	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	15	330	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	16	330	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	9.3	330	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	13	330	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	11	330	"	"	"	"	"	"	
4-Chloroaniline	ND	58	660	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	11	660	"	"	"	"	"	"	
2-Chloronaphthalene	ND	9.9	330	"	"	"	"	"	"	
2-Chlorophenol	ND	16	330	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	13	330	"	"	"	"	"	"	
Chrysene	ND	11	330	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	18	330	"	"	"	"	"	"	
Dibenzofuran	ND	9.6	330	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	12	330	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	16	330	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	14	330	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	15	330	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	44	660	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	15	330	"	"	"	"	"	"	
Diethyl phthalate	ND	14	330	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	36	330	"	"	"	"	"	"	
Dimethyl phthalate	ND	11	330	"	"	"	"	"	"	

Sequoia Analytical - Petaluma

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.

Environmental Resources Management
2525 Natomas Park Drive, Suite 350
Sacramento CA, 95833

Project: Aerojet RI/FS
Project Number: N/A
Project Manager: Bruce Lewis

P308140
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09/03/03 12:51

Semivolatile Organic Compounds by EPA Method 8270C Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
33D-SB01-5 (P308140-02) Soil Sampled: 08/07/03 08:55 Received: 08/07/03 13:10										
4,6-Dinitro-2-methylphenol	ND	17	1700	ug/kg	1	3080396	08/21/03	08/28/03	EPA 8270C	
2,4-Dinitrophenol	ND	10	1700	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	20	330	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	13	330	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	11	330	"	"	"	"	"	"	
Fluoranthene	ND	11	330	"	"	"	"	"	"	
Fluorene	ND	7.9	330	"	"	"	"	"	"	
Hexachlorobenzene	ND	15	330	"	"	"	"	"	"	
Hexachlorobutadiene	ND	17	330	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	10	330	"	"	"	"	"	"	
Hexachloroethane	ND	17	330	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	11	330	"	"	"	"	"	"	
Isophorone	ND	14	330	"	"	"	"	"	"	
2-Methylnaphthalene	ND	10	330	"	"	"	"	"	"	
2-Methylphenol	ND	16	330	"	"	"	"	"	"	
4-Methylphenol	ND	11	330	"	"	"	"	"	"	
Naphthalene	ND	13	330	"	"	"	"	"	"	
2-Nitroaniline	ND	17	1700	"	"	"	"	"	"	
3-Nitroaniline	ND	18	1700	"	"	"	"	"	"	
4-Nitroaniline	ND	22	1700	"	"	"	"	"	"	
Nitrobenzene	ND	16	330	"	"	"	"	"	"	
2-Nitrophenol	ND	14	330	"	"	"	"	"	"	
4-Nitrophenol	ND	23	1700	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	16	330	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	17	330	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	15	330	"	"	"	"	"	"	
Pentachlorophenol	ND	12	1700	"	"	"	"	"	"	
Phenanthrene	ND	14	330	"	"	"	"	"	"	
Phenol	ND	12	330	"	"	"	"	"	"	
Pyrene	ND	12	330	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	15	330	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	14	330	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	9.4	330	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		52 %	11-120			"	"	"	"	
Surrogate: Phenol-d6		64 %	16-130			"	"	"	"	
Surrogate: Nitrobenzene-d5		58 %	16-126			"	"	"	"	

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Project Manager: Bruce Lewis

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Semivolatile Organic Compounds by EPA Method 8270C Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
33D-SB01-5 (P308140-02) Soil Sampled: 08/07/03 08:55 Received: 08/07/03 13:10										
Surrogate: 2-Fluorobiphenyl		59 %	28-134			3080396	08/21/03	08/28/03	EPA 8270C	
Surrogate: 2,4,6-Tribromophenol		68 %	51-144			"	"	"	"	
Surrogate: Terphenyl-d14		107 %	64-119			"	"	"	"	
33D-SB01-10 (P308140-03) Soil Sampled: 08/07/03 09:37 Received: 08/07/03 13:10										
Acenaphthene	ND	8.7	330	ug/kg	1	3080396	08/21/03	08/28/03	EPA 8270C	
Acenaphthylene	ND	7.6	330	"	"	"	"	"	"	
Anthracene	ND	14	330	"	"	"	"	"	"	
Azobenzene	ND	20	330	"	"	"	"	"	"	
Benzidine	ND	1700	1700	"	"	"	"	"	"	
Benzoic acid	ND	2.7	1700	"	"	"	"	"	"	
Benzo (a) anthracene	ND	7.6	330	"	"	"	"	"	"	
Benzo (b+k) fluoranthene (total)	ND	13	330	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	8.8	330	"	"	"	"	"	"	
Benzo (a) pyrene	ND	10	330	"	"	"	"	"	"	
Benzyl alcohol	ND	11	660	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	9.1	330	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	15	330	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	16	330	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	45	9.3	330	"	"	"	"	"	"	J
4-Bromophenyl phenyl ether	ND	13	330	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	11	330	"	"	"	"	"	"	
4-Chloroaniline	ND	58	660	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	11	660	"	"	"	"	"	"	
2-Chloronaphthalene	ND	9.9	330	"	"	"	"	"	"	
2-Chlorophenol	ND	16	330	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	13	330	"	"	"	"	"	"	
Chrysene	ND	11	330	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	18	330	"	"	"	"	"	"	
Dibenzofuran	ND	9.6	330	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	12	330	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	16	330	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	14	330	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	15	330	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	44	660	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	15	330	"	"	"	"	"	"	
Diethyl phthalate	48	14	330	"	"	"	"	"	"	J

Sequoia Analytical - Petaluma

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Project Manager: Bruce Lewis

P308140
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09/03/03 12:51

Semivolatile Organic Compounds by EPA Method 8270C

Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
33D-SB01-10 (P308140-03) Soil Sampled: 08/07/03 09:37 Received: 08/07/03 13:10										
2,4-Dimethylphenol	ND	36	330	ug/kg	1	3080396	08/21/03	08/28/03	EPA 8270C	
Dimethyl phthalate	ND	11	330	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	17	1700	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	10	1700	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	20	330	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	13	330	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	11	330	"	"	"	"	"	"	
Fluoranthene	ND	11	330	"	"	"	"	"	"	
Fluorene	ND	7.9	330	"	"	"	"	"	"	
Hexachlorobenzene	ND	15	330	"	"	"	"	"	"	
Hexachlorobutadiene	ND	17	330	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	10	330	"	"	"	"	"	"	
Hexachloroethane	ND	17	330	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	11	330	"	"	"	"	"	"	
Isophorone	ND	14	330	"	"	"	"	"	"	
2-Methylnaphthalene	ND	10	330	"	"	"	"	"	"	
2-Methylphenol	ND	16	330	"	"	"	"	"	"	
4-Methylphenol	ND	11	330	"	"	"	"	"	"	
Naphthalene	ND	13	330	"	"	"	"	"	"	
2-Nitroaniline	ND	17	1700	"	"	"	"	"	"	
3-Nitroaniline	ND	18	1700	"	"	"	"	"	"	
4-Nitroaniline	ND	22	1700	"	"	"	"	"	"	
Nitrobenzene	ND	16	330	"	"	"	"	"	"	
2-Nitrophenol	ND	14	330	"	"	"	"	"	"	
4-Nitrophenol	ND	23	1700	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	16	330	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	17	330	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	15	330	"	"	"	"	"	"	
Pentachlorophenol	ND	12	1700	"	"	"	"	"	"	
Phenanthrene	ND	14	330	"	"	"	"	"	"	
Phenol	ND	12	330	"	"	"	"	"	"	
Pyrene	ND	12	330	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	15	330	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	14	330	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	9.4	330	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		62 %	11-120			"	"	"	"	

Sequoia Analytical - Petaluma

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.

Environmental Resources Management
2525 Natomas Park Drive, Suite 350
Sacramento CA, 95833

Project: Aerojet RI/FS
Project Number: N/A
Project Manager: Bruce Lewis

P308140
Reported:
09/03/03 12:51

Semivolatile Organic Compounds by EPA Method 8270C Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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33D-SB01-10 (P308140-03) Soil Sampled: 08/07/03 09:37 Received: 08/07/03 13:10

Surrogate: Phenol-d6	73 %	16-130				3080396	08/21/03	08/28/03	EPA 8270C	
Surrogate: Nitrobenzene-d5	65 %	16-126				"	"	"	"	
Surrogate: 2-Fluorobiphenyl	65 %	28-134				"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	83 %	51-144				"	"	"	"	
Surrogate: Terphenyl-d14	106 %	64-119				"	"	"	"	

33D-SB01-15 (P308140-04) Soil Sampled: 08/07/03 09:53 Received: 08/07/03 13:10

Acenaphthene	ND	8.7	330	ug/kg	1	3080396	08/21/03	08/28/03	EPA 8270C	
Acenaphthylene	ND	7.6	330	"	"	"	"	"	"	
Anthracene	ND	14	330	"	"	"	"	"	"	
Azobenzene	ND	20	330	"	"	"	"	"	"	
Benzidine	ND	1700	1700	"	"	"	"	"	"	
Benzoic acid	ND	2.7	1700	"	"	"	"	"	"	
Benzo (a) anthracene	ND	7.6	330	"	"	"	"	"	"	
Benzo (b+k) fluoranthene (total)	ND	13	330	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	8.8	330	"	"	"	"	"	"	
Benzo (a) pyrene	ND	10	330	"	"	"	"	"	"	
Benzyl alcohol	ND	11	660	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	9.1	330	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	15	330	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	16	330	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	9.3	330	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	13	330	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	11	330	"	"	"	"	"	"	
4-Chloroaniline	ND	58	660	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	11	660	"	"	"	"	"	"	
2-Chloronaphthalene	ND	9.9	330	"	"	"	"	"	"	
2-Chlorophenol	ND	16	330	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	13	330	"	"	"	"	"	"	
Chrysene	ND	11	330	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	18	330	"	"	"	"	"	"	
Dibenzofuran	ND	9.6	330	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	12	330	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	16	330	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	14	330	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	15	330	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	44	660	"	"	"	"	"	"	

Sequoia Analytical - Petaluma

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Environmental Resources Management
2525 Natomas Park Drive, Suite 350
Sacramento CA, 95833

Project: Aerojet RI/FS
Project Number: N/A
Project Manager: Bruce Lewis

P308140
Reported:
09/03/03 12:51

Semivolatile Organic Compounds by EPA Method 8270C Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
33D-SB01-15 (P308140-04) Soil Sampled: 08/07/03 09:53 Received: 08/07/03 13:10										
2,4-Dichlorophenol	ND	15	330	ug/kg	1	3080396	08/21/03	08/28/03	EPA 8270C	
Diethyl phthalate	86	14	330	"	"	"	"	"	"	J
2,4-Dimethylphenol	ND	36	330	"	"	"	"	"	"	
Dimethyl phthalate	ND	11	330	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	17	1700	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	10	1700	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	20	330	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	13	330	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	11	330	"	"	"	"	"	"	
Fluoranthene	ND	11	330	"	"	"	"	"	"	
Fluorene	ND	7.9	330	"	"	"	"	"	"	
Hexachlorobenzene	ND	15	330	"	"	"	"	"	"	
Hexachlorobutadiene	ND	17	330	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	10	330	"	"	"	"	"	"	
Hexachloroethane	ND	17	330	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	11	330	"	"	"	"	"	"	
Isophorone	ND	14	330	"	"	"	"	"	"	
2-Methylnaphthalene	ND	10	330	"	"	"	"	"	"	
2-Methylphenol	ND	16	330	"	"	"	"	"	"	
4-Methylphenol	ND	11	330	"	"	"	"	"	"	
Naphthalene	ND	13	330	"	"	"	"	"	"	
2-Nitroaniline	ND	17	1700	"	"	"	"	"	"	
3-Nitroaniline	ND	18	1700	"	"	"	"	"	"	
4-Nitroaniline	ND	22	1700	"	"	"	"	"	"	
Nitrobenzene	ND	16	330	"	"	"	"	"	"	
2-Nitrophenol	ND	14	330	"	"	"	"	"	"	
4-Nitrophenol	ND	23	1700	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	16	330	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	17	330	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	15	330	"	"	"	"	"	"	
Pentachlorophenol	ND	12	1700	"	"	"	"	"	"	
Phenanthrene	ND	14	330	"	"	"	"	"	"	
Phenol	ND	12	330	"	"	"	"	"	"	
Pyrene	ND	12	330	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	15	330	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	14	330	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	9.4	330	"	"	"	"	"	"	

Sequoia Analytical - Petaluma

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Environmental Resources Management
2525 Natomas Park Drive, Suite 350
Sacramento CA, 95833

Project: Aerojet RI/FS
Project Number: N/A
Project Manager: Bruce Lewis

P308140
Reported:
09/03/03 12:51

Semivolatile Organic Compounds by EPA Method 8270C Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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33D-SB01-15 (P308140-04) Soil Sampled: 08/07/03 09:53 Received: 08/07/03 13:10

Surrogate: 2-Fluorophenol	65 %	11-120				3080396	08/21/03	08/28/03	EPA 8270C	
Surrogate: Phenol-d6	75 %	16-130				"	"	"	"	
Surrogate: Nitrobenzene-d5	74 %	16-126				"	"	"	"	
Surrogate: 2-Fluorobiphenyl	73 %	28-134				"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	83 %	51-144				"	"	"	"	
Surrogate: Terphenyl-d14	115 %	64-119				"	"	"	"	

33D-SB01-20 (P308140-05) Soil Sampled: 08/07/03 10:05 Received: 08/07/03 13:10

Acenaphthene	ND	8.7	330	ug/kg	1	3080396	08/21/03	08/28/03	EPA 8270C	
Acenaphthylene	ND	7.6	330	"	"	"	"	"	"	
Anthracene	ND	14	330	"	"	"	"	"	"	
Azobenzene	ND	20	330	"	"	"	"	"	"	
Benzidine	ND	1700	1700	"	"	"	"	"	"	
Benzoic acid	ND	2.7	1700	"	"	"	"	"	"	
Benzo (a) anthracene	ND	7.6	330	"	"	"	"	"	"	
Benzo (b+k) fluoranthene (total)	ND	13	330	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	8.8	330	"	"	"	"	"	"	
Benzo (a) pyrene	ND	10	330	"	"	"	"	"	"	
Benzyl alcohol	ND	11	660	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	9.1	330	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	15	330	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	16	330	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	9.3	330	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	13	330	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	11	330	"	"	"	"	"	"	
4-Chloroaniline	ND	58	660	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	11	660	"	"	"	"	"	"	
2-Chloronaphthalene	ND	9.9	330	"	"	"	"	"	"	
2-Chlorophenol	ND	16	330	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	13	330	"	"	"	"	"	"	
Chrysene	ND	11	330	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	18	330	"	"	"	"	"	"	
Dibenzofuran	ND	9.6	330	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	12	330	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	16	330	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	14	330	"	"	"	"	"	"	

Environmental Resources Management
2525 Natomas Park Drive, Suite 350
Sacramento CA, 95833

Project: Aerojet RI/FS
Project Number: N/A
Project Manager: Bruce Lewis

P308140
Reported:
09/03/03 12:51

Semivolatile Organic Compounds by EPA Method 8270C Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
33D-SB01-20 (P308140-05) Soil Sampled: 08/07/03 10:05 Received: 08/07/03 13:10										
1,4-Dichlorobenzene	ND	15	330	ug/kg	1	3080396	08/21/03	08/28/03	EPA 8270C	
3,3'-Dichlorobenzidine	ND	44	660	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	15	330	"	"	"	"	"	"	
Diethyl phthalate	100	14	330	"	"	"	"	"	"	J
2,4-Dimethylphenol	ND	36	330	"	"	"	"	"	"	
Dimethyl phthalate	ND	11	330	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	17	1700	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	10	1700	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	20	330	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	13	330	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	11	330	"	"	"	"	"	"	
Fluoranthene	ND	11	330	"	"	"	"	"	"	
Fluorene	ND	7.9	330	"	"	"	"	"	"	
Hexachlorobenzene	ND	15	330	"	"	"	"	"	"	
Hexachlorobutadiene	ND	17	330	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	10	330	"	"	"	"	"	"	
Hexachloroethane	ND	17	330	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	11	330	"	"	"	"	"	"	
Isophorone	ND	14	330	"	"	"	"	"	"	
2-Methylnaphthalene	ND	10	330	"	"	"	"	"	"	
2-Methylphenol	ND	16	330	"	"	"	"	"	"	
4-Methylphenol	ND	11	330	"	"	"	"	"	"	
Naphthalene	ND	13	330	"	"	"	"	"	"	
2-Nitroaniline	ND	17	1700	"	"	"	"	"	"	
3-Nitroaniline	ND	18	1700	"	"	"	"	"	"	
4-Nitroaniline	ND	22	1700	"	"	"	"	"	"	
Nitrobenzene	ND	16	330	"	"	"	"	"	"	
2-Nitrophenol	ND	14	330	"	"	"	"	"	"	
4-Nitrophenol	ND	23	1700	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	16	330	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	17	330	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	15	330	"	"	"	"	"	"	
Pentachlorophenol	ND	12	1700	"	"	"	"	"	"	
Phenanthrene	ND	14	330	"	"	"	"	"	"	
Phenol	ND	12	330	"	"	"	"	"	"	
Pyrene	ND	12	330	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	15	330	"	"	"	"	"	"	

Sequoia Analytical - Petaluma

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Environmental Resources Management
2525 Natomas Park Drive, Suite 350
Sacramento CA, 95833

Project: Aerojet RI/FS
Project Number: N/A
Project Manager: Bruce Lewis

P308140
Reported:
09/03/03 12:51

Semivolatile Organic Compounds by EPA Method 8270C Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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33D-SB01-20 (P308140-05) Soil Sampled: 08/07/03 10:05 Received: 08/07/03 13:10

2,4,5-Trichlorophenol	ND	14	330	ug/kg	1	3080396	08/21/03	08/28/03	EPA 8270C	
2,4,6-Trichlorophenol	ND	9.4	330	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		56 %	11-120			"	"	"	"	
Surrogate: Phenol-d6		70 %	16-130			"	"	"	"	
Surrogate: Nitrobenzene-d5		59 %	16-126			"	"	"	"	
Surrogate: 2-Fluorobiphenyl		58 %	28-134			"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		73 %	51-144			"	"	"	"	
Surrogate: Terphenyl-d14		110 %	64-119			"	"	"	"	

33D-SB01-30 (P308140-06) Soil Sampled: 08/07/03 10:50 Received: 08/07/03 13:10

Acenaphthene	ND	8.7	330	ug/kg	1	3080396	08/21/03	08/28/03	EPA 8270C	
Acenaphthylene	ND	7.6	330	"	"	"	"	"	"	
Anthracene	ND	14	330	"	"	"	"	"	"	
Azobenzene	ND	20	330	"	"	"	"	"	"	
Benidine	ND	1700	1700	"	"	"	"	"	"	
Benzoic acid	ND	2.7	1700	"	"	"	"	"	"	
Benzo (a) anthracene	ND	7.6	330	"	"	"	"	"	"	
Benzo (b+k) fluoranthene (total)	ND	13	330	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	8.8	330	"	"	"	"	"	"	
Benzo (a) pyrene	ND	10	330	"	"	"	"	"	"	
Benzyl alcohol	ND	11	660	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	9.1	330	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	15	330	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	16	330	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	9.3	330	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	13	330	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	11	330	"	"	"	"	"	"	
4-Chloroaniline	ND	58	660	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	11	660	"	"	"	"	"	"	
2-Chloronaphthalene	ND	9.9	330	"	"	"	"	"	"	
2-Chlorophenol	ND	16	330	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	13	330	"	"	"	"	"	"	
Chrysene	ND	11	330	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	18	330	"	"	"	"	"	"	
Dibenzofuran	ND	9.6	330	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	12	330	"	"	"	"	"	"	

Environmental Resources Management
2525 Natomas Park Drive, Suite 350
Sacramento CA, 95833

Project: Aerojet RI/FS
Project Number: N/A
Project Manager: Bruce Lewis

P308140
Reported:
09/03/03 12:51

Semivolatile Organic Compounds by EPA Method 8270C Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
33D-SB01-30 (P308140-06) Soil Sampled: 08/07/03 10:50 Received: 08/07/03 13:10										
1,2-Dichlorobenzene	ND	16	330	ug/kg	1	3080396	08/21/03	08/28/03	EPA 8270C	
1,3-Dichlorobenzene	ND	14	330	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	15	330	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	44	660	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	15	330	"	"	"	"	"	"	
Diethyl phthalate	ND	14	330	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	36	330	"	"	"	"	"	"	
Dimethyl phthalate	ND	11	330	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	17	1700	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	10	1700	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	20	330	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	13	330	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	11	330	"	"	"	"	"	"	
Fluoranthene	ND	11	330	"	"	"	"	"	"	
Fluorene	ND	7.9	330	"	"	"	"	"	"	
Hexachlorobenzene	ND	15	330	"	"	"	"	"	"	
Hexachlorobutadiene	ND	17	330	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	10	330	"	"	"	"	"	"	
Hexachloroethane	ND	17	330	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	11	330	"	"	"	"	"	"	
Isophorone	ND	14	330	"	"	"	"	"	"	
2-Methylnaphthalene	ND	10	330	"	"	"	"	"	"	
2-Methylphenol	ND	16	330	"	"	"	"	"	"	
4-Methylphenol	ND	11	330	"	"	"	"	"	"	
Naphthalene	ND	13	330	"	"	"	"	"	"	
2-Nitroaniline	ND	17	1700	"	"	"	"	"	"	
3-Nitroaniline	ND	18	1700	"	"	"	"	"	"	
4-Nitroaniline	ND	22	1700	"	"	"	"	"	"	
Nitrobenzene	ND	16	330	"	"	"	"	"	"	
2-Nitrophenol	ND	14	330	"	"	"	"	"	"	
4-Nitrophenol	ND	23	1700	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	16	330	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	17	330	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	15	330	"	"	"	"	"	"	
Pentachlorophenol	ND	12	1700	"	"	"	"	"	"	
Phenanthrene	ND	14	330	"	"	"	"	"	"	

Environmental Resources Management
2525 Natomas Park Drive, Suite 350
Sacramento CA, 95833

Project: Aerojet RI/FS
Project Number: N/A
Project Manager: Bruce Lewis

P308140
Reported:
09/03/03 12:51

Semivolatile Organic Compounds by EPA Method 8270C Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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33D-SB01-30 (P308140-06) Soil Sampled: 08/07/03 10:50 Received: 08/07/03 13:10

Phenol	ND	12	330	ug/kg	1	3080396	08/21/03	08/28/03	EPA 8270C	
Pyrene	ND	12	330	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	15	330	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	14	330	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	9.4	330	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		55 %	11-120			"	"	"	"	
Surrogate: Phenol-d6		70 %	16-130			"	"	"	"	
Surrogate: Nitrobenzene-d5		63 %	16-126			"	"	"	"	
Surrogate: 2-Fluorobiphenyl		55 %	28-134			"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		54 %	51-144			"	"	"	"	
Surrogate: Terphenyl-d14		112 %	64-119			"	"	"	"	

33D-SB01D-30 (P308140-07) Soil Sampled: 08/07/03 10:50 Received: 08/07/03 13:10

Acenaphthene	ND	8.7	330	ug/kg	1	3080396	08/21/03	08/28/03	EPA 8270C	
Acenaphthylene	ND	7.6	330	"	"	"	"	"	"	
Anthracene	ND	14	330	"	"	"	"	"	"	
Azobenzene	ND	20	330	"	"	"	"	"	"	
Benzidine	ND	1700	1700	"	"	"	"	"	"	
Benzoic acid	ND	2.7	1700	"	"	"	"	"	"	
Benzo (a) anthracene	ND	7.6	330	"	"	"	"	"	"	
Benzo (b+k) fluoranthene (total)	ND	13	330	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	8.8	330	"	"	"	"	"	"	
Benzo (a) pyrene	ND	10	330	"	"	"	"	"	"	
Benzyl alcohol	ND	11	660	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	9.1	330	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	15	330	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	16	330	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	9.3	330	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	13	330	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	11	330	"	"	"	"	"	"	
4-Chloroaniline	ND	58	660	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	11	660	"	"	"	"	"	"	
2-Chloronaphthalene	ND	9.9	330	"	"	"	"	"	"	
2-Chlorophenol	ND	16	330	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	13	330	"	"	"	"	"	"	
Chrysene	ND	11	330	"	"	"	"	"	"	

Environmental Resources Management
2525 Natomas Park Drive, Suite 350
Sacramento CA, 95833

Project: Aerojet RI/FS
Project Number: N/A
Project Manager: Bruce Lewis

P308140
Reported:
09/03/03 12:51

Semivolatile Organic Compounds by EPA Method 8270C Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
33D-SB01D-30 (P308140-07) Soil Sampled: 08/07/03 10:50 Received: 08/07/03 13:10										
Dibenz (a,h) anthracene	ND	18	330	ug/kg	1	3080396	08/21/03	08/28/03	EPA 8270C	
Dibenzofuran	ND	9.6	330	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	12	330	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	16	330	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	14	330	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	15	330	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	44	660	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	15	330	"	"	"	"	"	"	
Diethyl phthalate	200	14	330	"	"	"	"	"	"	J
2,4-Dimethylphenol	ND	36	330	"	"	"	"	"	"	
Dimethyl phthalate	ND	11	330	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	17	1700	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	10	1700	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	20	330	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	13	330	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	11	330	"	"	"	"	"	"	
Fluoranthene	ND	11	330	"	"	"	"	"	"	
Fluorene	ND	7.9	330	"	"	"	"	"	"	
Hexachlorobenzene	ND	15	330	"	"	"	"	"	"	
Hexachlorobutadiene	ND	17	330	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	10	330	"	"	"	"	"	"	
Hexachloroethane	ND	17	330	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	11	330	"	"	"	"	"	"	
Isophorone	ND	14	330	"	"	"	"	"	"	
2-Methylnaphthalene	ND	10	330	"	"	"	"	"	"	
2-Methylphenol	ND	16	330	"	"	"	"	"	"	
4-Methylphenol	ND	11	330	"	"	"	"	"	"	
Naphthalene	ND	13	330	"	"	"	"	"	"	
2-Nitroaniline	ND	17	1700	"	"	"	"	"	"	
3-Nitroaniline	ND	18	1700	"	"	"	"	"	"	
4-Nitroaniline	ND	22	1700	"	"	"	"	"	"	
Nitrobenzene	ND	16	330	"	"	"	"	"	"	
2-Nitrophenol	ND	14	330	"	"	"	"	"	"	
4-Nitrophenol	ND	23	1700	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	16	330	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	17	330	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	15	330	"	"	"	"	"	"	

Sequoia Analytical - Petaluma

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.

Environmental Resources Management
2525 Natomas Park Drive, Suite 350
Sacramento CA, 95833

Project: Aerojet RI/FS
Project Number: N/A
Project Manager: Bruce Lewis

P308140
Reported:
09/03/03 12:51

Semivolatile Organic Compounds by EPA Method 8270C Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
33D-SB01D-30 (P308140-07) Soil Sampled: 08/07/03 10:50 Received: 08/07/03 13:10										
Pentachlorophenol	ND	12	1700	ug/kg	1	3080396	08/21/03	08/28/03	EPA 8270C	
Phenanthrene	ND	14	330	"	"	"	"	"	"	
Phenol	ND	12	330	"	"	"	"	"	"	
Pyrene	ND	12	330	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	15	330	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	14	330	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	9.4	330	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		47 %	11-120			"	"	"	"	
Surrogate: Phenol-d6		65 %	16-130			"	"	"	"	
Surrogate: Nitrobenzene-d5		61 %	16-126			"	"	"	"	
Surrogate: 2-Fluorobiphenyl		50 %	28-134			"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		33 %	51-144			"	"	"	"	S-LIM
Surrogate: Terphenyl-d14		112 %	64-119			"	"	"	"	
33D-SB01-35 (P308140-08) Soil Sampled: 08/07/03 11:15 Received: 08/07/03 13:10										
Acenaphthene	ND	8.7	330	ug/kg	1	3080396	08/21/03	08/28/03	EPA 8270C	
Acenaphthylene	ND	7.6	330	"	"	"	"	"	"	
Anthracene	ND	14	330	"	"	"	"	"	"	
Azobenzene	ND	20	330	"	"	"	"	"	"	
Benzidine	ND	1700	1700	"	"	"	"	"	"	
Benzoic acid	ND	2.7	1700	"	"	"	"	"	"	
Benzo (a) anthracene	ND	7.6	330	"	"	"	"	"	"	
Benzo (b+k) fluoranthene (total)	ND	13	330	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	8.8	330	"	"	"	"	"	"	
Benzo (a) pyrene	ND	10	330	"	"	"	"	"	"	
Benzyl alcohol	ND	11	660	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	9.1	330	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	15	330	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	16	330	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	9.3	330	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	13	330	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	11	330	"	"	"	"	"	"	
4-Chloroaniline	ND	58	660	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	11	660	"	"	"	"	"	"	
2-Chloronaphthalene	ND	9.9	330	"	"	"	"	"	"	
2-Chlorophenol	ND	16	330	"	"	"	"	"	"	

Environmental Resources Management
2525 Natomas Park Drive, Suite 350
Sacramento CA, 95833

Project: Aerojet RI/FS
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Project Manager: Bruce Lewis

P308140
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09/03/03 12:51

Semivolatile Organic Compounds by EPA Method 8270C Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
33D-SB01-35 (P308140-08) Soil Sampled: 08/07/03 11:15 Received: 08/07/03 13:10										
4-Chlorophenyl phenyl ether	ND	13	330	ug/kg	1	3080396	08/21/03	08/28/03	EPA 8270C	
Chrysene	ND	11	330	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	18	330	"	"	"	"	"	"	
Dibenzofuran	ND	9.6	330	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	12	330	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	16	330	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	14	330	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	15	330	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	44	660	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	15	330	"	"	"	"	"	"	
Diethyl phthalate	49	14	330	"	"	"	"	"	"	J
2,4-Dimethylphenol	ND	36	330	"	"	"	"	"	"	
Dimethyl phthalate	ND	11	330	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	17	1700	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	10	1700	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	20	330	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	13	330	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	11	330	"	"	"	"	"	"	
Fluoranthene	ND	11	330	"	"	"	"	"	"	
Fluorene	ND	7.9	330	"	"	"	"	"	"	
Hexachlorobenzene	ND	15	330	"	"	"	"	"	"	
Hexachlorobutadiene	ND	17	330	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	10	330	"	"	"	"	"	"	
Hexachloroethane	ND	17	330	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	11	330	"	"	"	"	"	"	
Isophorone	ND	14	330	"	"	"	"	"	"	
2-Methylnaphthalene	ND	10	330	"	"	"	"	"	"	
2-Methylphenol	ND	16	330	"	"	"	"	"	"	
4-Methylphenol	ND	11	330	"	"	"	"	"	"	
Naphthalene	ND	13	330	"	"	"	"	"	"	
2-Nitroaniline	ND	17	1700	"	"	"	"	"	"	
3-Nitroaniline	ND	18	1700	"	"	"	"	"	"	
4-Nitroaniline	ND	22	1700	"	"	"	"	"	"	
Nitrobenzene	ND	16	330	"	"	"	"	"	"	
2-Nitrophenol	ND	14	330	"	"	"	"	"	"	
4-Nitrophenol	ND	23	1700	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	16	330	"	"	"	"	"	"	

Sequoia Analytical - Petaluma

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Environmental Resources Management
2525 Natomas Park Drive, Suite 350
Sacramento CA, 95833

Project: Aerojet RI/FS
Project Number: N/A
Project Manager: Bruce Lewis

P308140
Reported:
09/03/03 12:51

Semivolatile Organic Compounds by EPA Method 8270C Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
33D-SB01-35 (P308140-08) Soil Sampled: 08/07/03 11:15 Received: 08/07/03 13:10										
N-Nitrosodiphenylamine	ND	17	330	ug/kg	1	3080396	08/21/03	08/28/03	EPA 8270C	
N-Nitrosodi-n-propylamine	ND	15	330	"	"	"	"	"	"	
Pentachlorophenol	ND	12	1700	"	"	"	"	"	"	
Phenanthrene	ND	14	330	"	"	"	"	"	"	
Phenol	ND	12	330	"	"	"	"	"	"	
Pyrene	ND	12	330	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	15	330	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	14	330	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	9.4	330	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		59 %	11-120			"	"	"	"	
Surrogate: Phenol-d6		72 %	16-130			"	"	"	"	
Surrogate: Nitrobenzene-d5		62 %	16-126			"	"	"	"	
Surrogate: 2-Fluorobiphenyl		47 %	28-134			"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		65 %	51-144			"	"	"	"	
Surrogate: Terphenyl-d14		114 %	64-119			"	"	"	"	
33D-SB01-40 (P308140-09) Soil Sampled: 08/07/03 11:50 Received: 08/07/03 13:10										
Acenaphthene	ND	8.7	330	ug/kg	1	3080396	08/21/03	08/28/03	EPA 8270C	
Acenaphthylene	ND	7.6	330	"	"	"	"	"	"	
Anthracene	ND	14	330	"	"	"	"	"	"	
Azobenzene	ND	20	330	"	"	"	"	"	"	
Benidine	ND	1700	1700	"	"	"	"	"	"	
Benzoic acid	ND	2.7	1700	"	"	"	"	"	"	
Benzo (a) anthracene	ND	7.6	330	"	"	"	"	"	"	
Benzo (b+k) fluoranthene (total)	ND	13	330	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	8.8	330	"	"	"	"	"	"	
Benzo (a) pyrene	ND	10	330	"	"	"	"	"	"	
Benzyl alcohol	ND	11	660	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	9.1	330	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	15	330	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	16	330	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	9.3	330	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	13	330	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	11	330	"	"	"	"	"	"	
4-Chloroaniline	ND	58	660	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	11	660	"	"	"	"	"	"	

Environmental Resources Management
2525 Natomas Park Drive, Suite 350
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Project: Aerojet RI/FS
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Semivolatile Organic Compounds by EPA Method 8270C

Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
33D-SB01-40 (P308140-09) Soil Sampled: 08/07/03 11:50 Received: 08/07/03 13:10										
2-Chloronaphthalene	ND	9.9	330	ug/kg	1	3080396	08/21/03	08/28/03	EPA 8270C	
2-Chlorophenol	ND	16	330	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	13	330	"	"	"	"	"	"	
Chrysene	ND	11	330	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	18	330	"	"	"	"	"	"	
Dibenzofuran	ND	9.6	330	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	12	330	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	16	330	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	14	330	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	15	330	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	44	660	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	15	330	"	"	"	"	"	"	
Diethyl phthalate	ND	14	330	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	36	330	"	"	"	"	"	"	
Dimethyl phthalate	ND	11	330	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	17	1700	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	10	1700	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	20	330	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	13	330	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	11	330	"	"	"	"	"	"	
Fluoranthene	ND	11	330	"	"	"	"	"	"	
Fluorene	ND	7.9	330	"	"	"	"	"	"	
Hexachlorobenzene	ND	15	330	"	"	"	"	"	"	
Hexachlorobutadiene	ND	17	330	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	10	330	"	"	"	"	"	"	
Hexachloroethane	ND	17	330	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	11	330	"	"	"	"	"	"	
Isophorone	ND	14	330	"	"	"	"	"	"	
2-Methylnaphthalene	ND	10	330	"	"	"	"	"	"	
2-Methylphenol	ND	16	330	"	"	"	"	"	"	
4-Methylphenol	ND	11	330	"	"	"	"	"	"	
Naphthalene	ND	13	330	"	"	"	"	"	"	
2-Nitroaniline	ND	17	1700	"	"	"	"	"	"	
3-Nitroaniline	ND	18	1700	"	"	"	"	"	"	
4-Nitroaniline	ND	22	1700	"	"	"	"	"	"	
Nitrobenzene	ND	16	330	"	"	"	"	"	"	

Environmental Resources Management
2525 Natomas Park Drive, Suite 350
Sacramento CA, 95833

Project: Aerojet RI/FS
Project Number: N/A
Project Manager: Bruce Lewis

P308140
Reported:
09/03/03 12:51

Semivolatile Organic Compounds by EPA Method 8270C Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
33D-SB01-40 (P308140-09) Soil Sampled: 08/07/03 11:50 Received: 08/07/03 13:10										
2-Nitrophenol	ND	14	330	ug/kg	1	3080396	08/21/03	08/28/03	EPA 8270C	
4-Nitrophenol	ND	23	1700	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	16	330	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	17	330	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	15	330	"	"	"	"	"	"	
Pentachlorophenol	ND	12	1700	"	"	"	"	"	"	
Phenanthrene	ND	14	330	"	"	"	"	"	"	
Phenol	ND	12	330	"	"	"	"	"	"	
Pyrene	ND	12	330	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	15	330	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	14	330	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	9.4	330	"	"	"	"	"	"	
<i>Surrogate: 2-Fluorophenol</i>		48 %	11-120			"	"	"	"	
<i>Surrogate: Phenol-d6</i>		66 %	16-130			"	"	"	"	
<i>Surrogate: Nitrobenzene-d5</i>		40 %	16-126			"	"	"	"	
<i>Surrogate: 2-Fluorobiphenyl</i>		23 %	28-134			"	"	"	"	S-LIM
<i>Surrogate: 2,4,6-Tribromophenol</i>		53 %	51-144			"	"	"	"	
<i>Surrogate: Terphenyl-d14</i>		104 %	64-119			"	"	"	"	
33D-SB01-45E (P308140-10) Water Sampled: 08/07/03 11:58 Received: 08/07/03 13:10										
Acenaphthene	ND	1.2	10	ug/l	1	3080223	08/12/03	08/27/03	EPA 8270C	
Acenaphthylene	ND	1.4	10	"	"	"	"	"	"	
Anthracene	ND	0.62	10	"	"	"	"	"	"	
Azobenzene	ND	0.66	21	"	"	"	"	"	"	
Benzidine	ND	3.3	52	"	"	"	"	"	"	
Benzoic acid	ND	4.1	52	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.46	10	"	"	"	"	"	"	
Benzo (b+k) fluoranthene (total)	ND	1.2	10	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	0.67	10	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.91	10	"	"	"	"	"	"	
Benzyl alcohol	ND	4.0	21	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	1.1	10	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	1.6	10	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	1.6	10	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	3.0	10	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	0.73	10	"	"	"	"	"	"	

Environmental Resources Management
2525 Natomas Park Drive, Suite 350
Sacramento CA, 95833

Project: Aerojet RI/FS
Project Number: N/A
Project Manager: Bruce Lewis

P308140
Reported:
09/03/03 12:51

Semivolatile Organic Compounds by EPA Method 8270C Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
33D-SB01-45E (P308140-10) Water Sampled: 08/07/03 11:58 Received: 08/07/03 13:10										
Butyl benzyl phthalate	ND	2.8	10	ug/l	1	3080223	08/12/03	08/27/03	EPA 8270C	
4-Chloroaniline	ND	0.57	21	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	2.4	21	"	"	"	"	"	"	
2-Chloronaphthalene	ND	1.5	10	"	"	"	"	"	"	
2-Chlorophenol	ND	0.32	10	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	1.0	10	"	"	"	"	"	"	
Chrysene	ND	0.47	10	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.57	10	"	"	"	"	"	"	
Dibenzofuran	ND	1.2	10	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	1.2	10	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.9	10	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.9	10	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.8	10	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	3.0	21	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	0.49	10	"	"	"	"	"	"	
Diethyl phthalate	ND	0.44	10	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1.4	10	"	"	"	"	"	"	
Dimethyl phthalate	ND	0.58	10	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	3.5	52	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	2.4	52	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	0.85	10	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	0.79	10	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	0.84	10	"	"	"	"	"	"	
Fluoranthene	ND	0.46	10	"	"	"	"	"	"	
Fluorene	ND	1.0	10	"	"	"	"	"	"	
Hexachlorobenzene	ND	0.82	10	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.5	10	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	0.32	10	"	"	"	"	"	"	
Hexachloroethane	ND	1.8	10	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.64	10	"	"	"	"	"	"	
Isophorone	ND	0.74	10	"	"	"	"	"	"	
2-Methylnaphthalene	ND	1.5	10	"	"	"	"	"	"	
2-Methylphenol	ND	3.5	10	"	"	"	"	"	"	
4-Methylphenol	ND	3.1	10	"	"	"	"	"	"	
Naphthalene	ND	1.6	10	"	"	"	"	"	"	
2-Nitroaniline	ND	0.72	52	"	"	"	"	"	"	

Environmental Resources Management
2525 Natomas Park Drive, Suite 350
Sacramento CA, 95833

Project: Aerojet RI/FS
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09/03/03 12:51

Semivolatile Organic Compounds by EPA Method 8270C Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
33D-SB01-45E (P308140-10) Water Sampled: 08/07/03 11:58 Received: 08/07/03 13:10										
3-Nitroaniline	ND	0.56	52	ug/l	1	3080223	08/12/03	08/27/03	EPA 8270C	
4-Nitroaniline	ND	0.64	52	"	"	"	"	"	"	
Nitrobenzene	ND	1.4	10	"	"	"	"	"	"	
2-Nitrophenol	ND	0.44	10	"	"	"	"	"	"	
4-Nitrophenol	ND	0.53	52	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	1.5	21	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	4.0	10	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	0.60	10	"	"	"	"	"	"	
Pentachlorophenol	ND	3.2	52	"	"	"	"	"	"	
Phenanthrene	ND	0.58	10	"	"	"	"	"	"	
Phenol	ND	0.50	10	"	"	"	"	"	"	
Pyrene	ND	0.29	10	"	"	"	"	"	"	
Pyridine	ND	3.9	10	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.8	10	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	0.64	10	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	0.32	10	"	"	"	"	"	"	
<i>Surrogate: 2-Fluorophenol</i>		52 %	15-103			"	"	"	"	
<i>Surrogate: Phenol-d6</i>		67 %	18-115			"	"	"	"	
<i>Surrogate: Nitrobenzene-d5</i>		76 %	39-103			"	"	"	"	
<i>Surrogate: 2-Fluorobiphenyl</i>		79 %	40-124			"	"	"	"	
<i>Surrogate: 2,4,6-Tribromophenol</i>		97 %	11-142			"	"	"	"	
<i>Surrogate: Terphenyl-d14</i>		118 %	56-139			"	"	"	"	
33D-SB01-45 (P308140-11) Soil Sampled: 08/07/03 12:15 Received: 08/07/03 13:10										
Acenaphthene	ND	8.7	330	ug/kg	1	3080396	08/21/03	08/28/03	EPA 8270C	
Acenaphthylene	ND	7.6	330	"	"	"	"	"	"	
Anthracene	ND	14	330	"	"	"	"	"	"	
Azobenzene	ND	20	330	"	"	"	"	"	"	
Benzidine	ND	1700	1700	"	"	"	"	"	"	
Benzoic acid	ND	2.7	1700	"	"	"	"	"	"	
Benzo (a) anthracene	ND	7.6	330	"	"	"	"	"	"	
Benzo (b+k) fluoranthene (total)	ND	13	330	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	8.8	330	"	"	"	"	"	"	
Benzo (a) pyrene	ND	10	330	"	"	"	"	"	"	
Benzyl alcohol	ND	11	660	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	9.1	330	"	"	"	"	"	"	

Environmental Resources Management
2525 Natomas Park Drive, Suite 350
Sacramento CA, 95833

Project: Aerojet RI/FS
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Project Manager: Bruce Lewis

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Reported:
09/03/03 12:51

Semivolatile Organic Compounds by EPA Method 8270C

Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
33D-SB01-45 (P308140-11) Soil Sampled: 08/07/03 12:15 Received: 08/07/03 13:10										
Bis(2-chloroethyl)ether	ND	15	330	ug/kg	1	3080396	08/21/03	08/28/03	EPA 8270C	
Bis(2-chloroisopropyl)ether	ND	16	330	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	9.3	330	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	13	330	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	11	330	"	"	"	"	"	"	
4-Chloroaniline	ND	58	660	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	11	660	"	"	"	"	"	"	
2-Chloronaphthalene	ND	9.9	330	"	"	"	"	"	"	
2-Chlorophenol	ND	16	330	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	13	330	"	"	"	"	"	"	
Chrysene	ND	11	330	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	18	330	"	"	"	"	"	"	
Dibenzofuran	ND	9.6	330	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	12	330	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	16	330	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	14	330	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	15	330	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	44	660	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	15	330	"	"	"	"	"	"	
Diethyl phthalate	ND	14	330	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	36	330	"	"	"	"	"	"	
Dimethyl phthalate	ND	11	330	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	17	1700	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	10	1700	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	20	330	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	13	330	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	11	330	"	"	"	"	"	"	
Fluoranthene	ND	11	330	"	"	"	"	"	"	
Fluorene	ND	7.9	330	"	"	"	"	"	"	
Hexachlorobenzene	ND	15	330	"	"	"	"	"	"	
Hexachlorobutadiene	ND	17	330	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	10	330	"	"	"	"	"	"	
Hexachloroethane	ND	17	330	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	11	330	"	"	"	"	"	"	
Isophorone	ND	14	330	"	"	"	"	"	"	
2-Methylnaphthalene	ND	10	330	"	"	"	"	"	"	

Environmental Resources Management
2525 Natomas Park Drive, Suite 350
Sacramento CA, 95833

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09/03/03 12:51

Semivolatile Organic Compounds by EPA Method 8270C

Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
33D-SB01-45 (P308140-11) Soil Sampled: 08/07/03 12:15 Received: 08/07/03 13:10										
2-Methylphenol	ND	16	330	ug/kg	1	3080396	08/21/03	08/28/03	EPA 8270C	
4-Methylphenol	ND	11	330	"	"	"	"	"	"	
Naphthalene	ND	13	330	"	"	"	"	"	"	
2-Nitroaniline	ND	17	1700	"	"	"	"	"	"	
3-Nitroaniline	ND	18	1700	"	"	"	"	"	"	
4-Nitroaniline	ND	22	1700	"	"	"	"	"	"	
Nitrobenzene	ND	16	330	"	"	"	"	"	"	
2-Nitrophenol	ND	14	330	"	"	"	"	"	"	
4-Nitrophenol	ND	23	1700	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	16	330	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	17	330	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	15	330	"	"	"	"	"	"	
Pentachlorophenol	ND	12	1700	"	"	"	"	"	"	
Phenanthrene	ND	14	330	"	"	"	"	"	"	
Phenol	ND	12	330	"	"	"	"	"	"	
Pyrene	ND	12	330	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	15	330	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	14	330	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	9.4	330	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		52 %	11-120			"	"	"	"	
Surrogate: Phenol-d6		69 %	16-130			"	"	"	"	
Surrogate: Nitrobenzene-d5		43 %	16-126			"	"	"	"	
Surrogate: 2-Fluorobiphenyl		22 %	28-134			"	"	"	"	S-LIM
Surrogate: 2,4,6-Tribromophenol		76 %	51-144			"	"	"	"	
Surrogate: Terphenyl-d14		103 %	64-119			"	"	"	"	

Environmental Resources Management
2525 Natomas Park Drive, Suite 350
Sacramento CA, 95833

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Reported:
09/03/03 12:51

Tentatively Identified Compounds by GC/MS - Quality Control

Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3080223 - EPA 3520B LiqLiquid
Blank (3080223-BLK1)

Prepared: 08/12/03 Analyzed: 08/26/03

No TICs found ND 10 ug/l

Batch 3080396 - EPA 3550A Sonication
Blank (3080396-BLK1)

Prepared: 08/21/03 Analyzed: 08/27/03

No TICs found ND 300 ug/kg

Environmental Resources Management
2525 Natomas Park Drive, Suite 350
Sacramento CA, 95833

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P308140
Reported:
09/03/03 12:51

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3080223 - EPA 3520B LiqLiquid

Blank (3080223-BLK1)

Prepared: 08/12/03 Analyzed: 08/26/03

Acenaphthene	ND	1.2	10	ug/l
Acenaphthylene	ND	1.4	10	"
Anthracene	ND	0.60	10	"
Azobenzene	ND	0.63	20	"
Benzidine	ND	3.2	50	"
Benzoic acid	ND	3.9	50	"
Benzo (a) anthracene	ND	0.44	10	"
Benzo (b+k) fluoranthene (total)	ND	1.1	10	"
Benzo (g,h,i) perylene	ND	0.64	10	"
Benzo (a) pyrene	ND	0.87	10	"
Benzyl alcohol	ND	3.9	20	"
Bis(2-chloroethoxy)methane	ND	1.1	10	"
Bis(2-chloroethyl)ether	ND	1.5	10	"
Bis(2-chloroisopropyl)ether	ND	1.5	10	"
Bis(2-ethylhexyl)phthalate	ND	2.8	10	"
4-Bromophenyl phenyl ether	ND	0.70	10	"
Butyl benzyl phthalate	ND	2.7	10	"
4-Chloroaniline	ND	0.55	20	"
4-Chloro-3-methylphenol	ND	2.3	20	"
2-Chloronaphthalene	ND	1.4	10	"
2-Chlorophenol	ND	0.31	10	"
4-Chlorophenyl phenyl ether	ND	0.97	10	"
Chrysene	ND	0.45	10	"
Dibenz (a,h) anthracene	ND	0.55	10	"
Dibenzofuran	ND	1.1	10	"
Di-n-butyl phthalate	ND	1.1	10	"
1,2-Dichlorobenzene	ND	1.8	10	"
1,3-Dichlorobenzene	ND	1.8	10	"
1,4-Dichlorobenzene	ND	1.8	10	"
3,3'-Dichlorobenzidine	ND	2.9	20	"
2,4-Dichlorophenol	ND	0.47	10	"
Diethyl phthalate	ND	0.42	10	"
2,4-Dimethylphenol	ND	1.4	10	"
Dimethyl phthalate	ND	0.56	10	"

Sequoia Analytical - Petaluma

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.

Environmental Resources Management
2525 Natomas Park Drive, Suite 350
Sacramento CA, 95833

Project: Aerojet RI/FS
Project Number: N/A
Project Manager: Bruce Lewis

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Reported:
09/03/03 12:51

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3080223 - EPA 3520B LiqLiquid

Blank (3080223-BLK1)

Prepared: 08/12/03 Analyzed: 08/26/03

4,6-Dinitro-2-methylphenol	ND	3.4	50	ug/l
2,4-Dinitrophenol	ND	2.3	50	"
2,4-Dinitrotoluene	ND	0.82	10	"
2,6-Dinitrotoluene	ND	0.76	10	"
Di-n-octyl phthalate	ND	0.81	10	"
Fluoranthene	ND	0.44	10	"
Fluorene	ND	1.0	10	"
Hexachlorobenzene	ND	0.79	10	"
Hexachlorobutadiene	ND	1.5	10	"
Hexachlorocyclopentadiene	ND	0.31	10	"
Hexachloroethane	ND	1.7	10	"
Indeno (1,2,3-cd) pyrene	ND	0.61	10	"
Isophorone	ND	0.71	10	"
2-Methylnaphthalene	ND	1.4	10	"
2-Methylphenol	ND	3.4	10	"
4-Methylphenol	ND	3.0	10	"
Naphthalene	ND	1.6	10	"
2-Nitroaniline	ND	0.69	50	"
3-Nitroaniline	ND	0.54	50	"
4-Nitroaniline	ND	0.61	50	"
Nitrobenzene	ND	1.3	10	"
2-Nitrophenol	ND	0.42	10	"
4-Nitrophenol	ND	0.51	50	"
N-Nitrosodimethylamine	ND	1.4	20	"
N-Nitrosodiphenylamine	ND	3.9	10	"
N-Nitrosodi-n-propylamine	ND	0.58	10	"
Pentachlorophenol	ND	3.1	50	"
Phenanthrene	ND	0.56	10	"
Phenol	ND	0.48	10	"
Pyrene	ND	0.28	10	"
Pyridine	ND	3.8	10	"
1,2,4-Trichlorobenzene	ND	1.7	10	"
2,4,5-Trichlorophenol	ND	0.61	10	"
2,4,6-Trichlorophenol	ND	0.31	10	"

Sequoia Analytical - Petaluma

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Environmental Resources Management
2525 Natomas Park Drive, Suite 350
Sacramento CA, 95833

Project: Aerojet RI/FS
Project Number: N/A
Project Manager: Bruce Lewis

P308140
Reported:
09/03/03 12:51

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 3080223 - EPA 3520B LiqLiquid

Blank (3080223-BLK1)

Prepared: 08/12/03 Analyzed: 08/26/03

Surrogate: 2-Fluorophenol	80.9			ug/l	150	54	15-103			
Surrogate: Phenol-d6	101			"	150	67	18-115			
Surrogate: Nitrobenzene-d5	76.7			"	100	77	39-103			
Surrogate: 2-Fluorobiphenyl	73.5			"	100	74	40-124			
Surrogate: 2,4,6-Tribromophenol	124			"	150	83	11-142			
Surrogate: Terphenyl-d14	113			"	100	113	56-139			

Laboratory Control Sample (3080223-BS1)

Prepared: 08/12/03 Analyzed: 08/26/03

Acenaphthene	96.6	1.2	10	ug/l	100	97	58-120			
4-Chloro-3-methylphenol	104	2.3	20	"	100	104	51-116			
2-Chlorophenol	85.8	0.31	10	"	100	86	28-111			
1,4-Dichlorobenzene	79.9	1.8	10	"	100	80	29-108			
2,4-Dinitrotoluene	122	0.82	10	"	100	122	60-114			Q-LIM
4-Nitrophenol	102	0.51	50	"	100	102	25-148			
N-Nitrosodi-n-propylamine	88.1	0.58	10	"	100	88	29-119			
Pentachlorophenol	108	3.1	50	"	100	108	40-131			
Phenol	77.2	0.48	10	"	100	77	22-117			
Pyrene	116	0.28	10	"	100	116	52-127			
1,2,4-Trichlorobenzene	90.6	1.7	10	"	100	91	24-131			
Surrogate: 2-Fluorophenol	100			"	150	67	15-103			
Surrogate: Phenol-d6	117			"	150	78	18-115			
Surrogate: Nitrobenzene-d5	93.3			"	100	93	39-103			
Surrogate: 2-Fluorobiphenyl	95.5			"	100	96	40-124			
Surrogate: 2,4,6-Tribromophenol	168			"	150	112	11-142			
Surrogate: Terphenyl-d14	116			"	100	116	56-139			

Laboratory Control Sample Dup (3080223-BSD1)

Prepared: 08/12/03 Analyzed: 08/26/03

Acenaphthene	99.4	1.2	10	ug/l	100	99	58-120	3	27	
4-Chloro-3-methylphenol	105	2.3	20	"	100	105	51-116	1	30	
2-Chlorophenol	87.0	0.31	10	"	100	87	28-111	1	39	
1,4-Dichlorobenzene	80.0	1.8	10	"	100	80	29-108	0.1	41	
2,4-Dinitrotoluene	125	0.82	10	"	100	125	60-114	2	22	Q-LIM
4-Nitrophenol	99.4	0.51	50	"	100	99	25-148	3	44	
N-Nitrosodi-n-propylamine	88.5	0.58	10	"	100	88	29-119	0.5	44	
Pentachlorophenol	110	3.1	50	"	100	110	40-131	2	33	

Sequoia Analytical - Petaluma

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2525 Natomas Park Drive, Suite 350
Sacramento CA, 95833

Project: Aerojet RI/FS
Project Number: N/A
Project Manager: Bruce Lewis

P308140
Reported:
09/03/03 12:51

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 3080223 - EPA 3520B LiqLiquid

Laboratory Control Sample Dup (3080223-BSD1)

Prepared: 08/12/03 Analyzed: 08/26/03

Phenol	77.8	0.48	10	ug/l	100	78	22-117	0.8	33	
Pyrene	120	0.28	10	"	100	120	52-127	3	25	
1,2,4-Trichlorobenzene	90.2	1.7	10	"	100	90	24-131	0.4	48	
Surrogate: 2-Fluorophenol	101			"	150	67	15-103			
Surrogate: Phenol-d6	117			"	150	78	18-115			
Surrogate: Nitrobenzene-d5	93.5			"	100	94	39-103			
Surrogate: 2-Fluorobiphenyl	98.4			"	100	98	40-124			
Surrogate: 2,4,6-Tribromophenol	168			"	150	112	11-142			
Surrogate: Terphenyl-d14	120			"	100	120	56-139			

Batch 3080396 - EPA 3550A Sonication

Blank (3080396-BLK1)

Prepared: 08/21/03 Analyzed: 08/27/03

Acenaphthene	ND	8.7	330	ug/kg						
Acenaphthylene	ND	7.6	330	"						
Anthracene	ND	14	330	"						
Azobenzene	ND	20	330	"						
Benzidine	ND	1700	1700	"						
Benzoic acid	ND	2.7	1700	"						
Benzo (a) anthracene	ND	7.6	330	"						
Benzo (b+k) fluoranthene (total)	ND	13	330	"						
Benzo (g,h,i) perylene	ND	8.8	330	"						
Benzo (a) pyrene	ND	10	330	"						
Benzyl alcohol	ND	11	660	"						
Bis(2-chloroethoxy)methane	ND	9.1	330	"						
Bis(2-chloroethyl)ether	ND	15	330	"						
Bis(2-chloroisopropyl)ether	ND	16	330	"						
Bis(2-ethylhexyl)phthalate	ND	9.3	330	"						
4-Bromophenyl phenyl ether	ND	13	330	"						
Butyl benzyl phthalate	ND	11	330	"						
4-Chloroaniline	ND	58	660	"						
4-Chloro-3-methylphenol	ND	11	660	"						
2-Chloronaphthalene	ND	9.9	330	"						
2-Chlorophenol	ND	16	330	"						
4-Chlorophenyl phenyl ether	ND	13	330	"						

Sequoia Analytical - Petaluma

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Environmental Resources Management
2525 Natomas Park Drive, Suite 350
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Project: Aerojet RI/FS
Project Number: N/A
Project Manager: Bruce Lewis

P308140
Reported:
09/03/03 12:51

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3080396 - EPA 3550A Sonication

Blank (3080396-BLK1)

Prepared: 08/21/03 Analyzed: 08/27/03

Chrysene	ND	11	330	ug/kg
Dibenz (a,h) anthracene	ND	18	330	"
Dibenzofuran	ND	9.6	330	"
Di-n-butyl phthalate	ND	12	330	"
1,2-Dichlorobenzene	ND	16	330	"
1,3-Dichlorobenzene	ND	14	330	"
1,4-Dichlorobenzene	ND	15	330	"
3,3'-Dichlorobenzidine	ND	44	660	"
2,4-Dichlorophenol	ND	15	330	"
Diethyl phthalate	ND	14	330	"
2,4-Dimethylphenol	ND	36	330	"
Dimethyl phthalate	ND	11	330	"
4,6-Dinitro-2-methylphenol	ND	17	1700	"
2,4-Dinitrophenol	ND	10	1700	"
2,4-Dinitrotoluene	ND	20	330	"
2,6-Dinitrotoluene	ND	13	330	"
Di-n-octyl phthalate	ND	11	330	"
Fluoranthene	ND	11	330	"
Fluorene	ND	7.9	330	"
Hexachlorobenzene	ND	15	330	"
Hexachlorobutadiene	ND	17	330	"
Hexachlorocyclopentadiene	ND	10	330	"
Hexachloroethane	ND	17	330	"
Indeno (1,2,3-cd) pyrene	ND	11	330	"
Isophorone	ND	14	330	"
2-Methylnaphthalene	ND	10	330	"
2-Methylphenol	ND	16	330	"
4-Methylphenol	ND	11	330	"
Naphthalene	ND	13	330	"
2-Nitroaniline	ND	17	1700	"
3-Nitroaniline	ND	18	1700	"
4-Nitroaniline	ND	22	1700	"
Nitrobenzene	ND	16	330	"
2-Nitrophenol	ND	14	330	"

Sequoia Analytical - Petaluma

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Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3080396 - EPA 3550A Sonication

Blank (3080396-BLK1)

Prepared: 08/21/03 Analyzed: 08/27/03

4-Nitrophenol	ND	23	1700	ug/kg							
N-Nitrosodimethylamine	ND	16	330	"							
N-Nitrosodiphenylamine	ND	17	330	"							
N-Nitrosodi-n-propylamine	ND	15	330	"							
Pentachlorophenol	ND	12	1700	"							
Phenanthrene	ND	14	330	"							
Phenol	ND	12	330	"							
Pyrene	ND	12	330	"							
1,2,4-Trichlorobenzene	ND	15	330	"							
2,4,5-Trichlorophenol	ND	14	330	"							
2,4,6-Trichlorophenol	ND	9.4	330	"							
Surrogate: 2-Fluorophenol	2640			"	5000		53	11-120			
Surrogate: Phenol-d6	3060			"	5000		61	16-130			
Surrogate: Nitrobenzene-d5	2060			"	3330		62	16-126			
Surrogate: 2-Fluorobiphenyl	2310			"	3330		69	28-134			
Surrogate: 2,4,6-Tribromophenol	3840			"	5000		77	51-144			
Surrogate: Terphenyl-d14	3290			"	3330		99	64-119			

Laboratory Control Sample (3080396-BS1)

Prepared: 08/21/03 Analyzed: 08/27/03

Acenaphthene	2770	8.7	330	ug/kg	3330		83	34-114			
4-Chloro-3-methylphenol	2890	11	660	"	3330		87	24-118			
2-Chlorophenol	2420	16	330	"	3330		73	29-101			
1,4-Dichlorobenzene	2270	15	330	"	3330		68	25-104			
2,4-Dinitrotoluene	3520	20	330	"	3330		106	42-116			
4-Nitrophenol	3180	23	1700	"	3330		95	31-109			
N-Nitrosodi-n-propylamine	2510	15	330	"	3330		75	23-117			
Pentachlorophenol	3160	12	1700	"	3330		95	34-114			
Phenol	2340	12	330	"	3330		70	20-105			
Pyrene	3500	12	330	"	3330		105	30-124			
1,2,4-Trichlorobenzene	2610	15	330	"	3330		78	28-112			
Surrogate: 2-Fluorophenol	3070			"	5000		61	11-120			
Surrogate: Phenol-d6	3310			"	5000		66	16-130			
Surrogate: Nitrobenzene-d5	2430			"	3330		73	16-126			
Surrogate: 2-Fluorobiphenyl	2600			"	3330		78	28-134			
Surrogate: 2,4,6-Tribromophenol	4690			"	5000		94	51-144			

Sequoia Analytical - Petaluma

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Sacramento CA, 95833

Project: Aerojet RI/FS
Project Number: N/A
Project Manager: Bruce Lewis

P308140
Reported:
09/03/03 12:51

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 3080396 - EPA 3550A Sonication

Laboratory Control Sample (3080396-BS1)

Prepared: 08/21/03 Analyzed: 08/27/03

Surrogate: Terphenyl-d14	3410	MDL	330	ug/kg	3330	ND	83	30-110
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Matrix Spike (3080396-MS1)

Source: P308184-01

Prepared: 08/21/03 Analyzed: 08/27/03

Acenaphthene	2760	8.7	330	ug/kg	3330	ND	83	30-110
4-Chloro-3-methylphenol	2930	11	660	"	3330	ND	88	27-109
2-Chlorophenol	2330	16	330	"	3330	ND	70	24-98
1,4-Dichlorobenzene	1990	15	330	"	3330	ND	60	24-89
2,4-Dinitrotoluene	3590	20	330	"	3330	ND	108	35-110
4-Nitrophenol	3280	23	1700	"	3330	ND	98	20-110
N-Nitrosodi-n-propylamine	2350	15	330	"	3330	ND	71	23-109
Pentachlorophenol	3030	12	1700	"	3330	ND	91	25-123
Phenol	2260	12	330	"	3330	ND	68	19-100
Pyrene	3550	12	330	"	3330	ND	107	12-131
1,2,4-Trichlorobenzene	2460	15	330	"	3330	ND	74	17-110

Surrogate: 2-Fluorophenol	3130			"	5000		63	11-120
Surrogate: Phenol-d6	3450			"	5000		69	16-130
Surrogate: Nitrobenzene-d5	2510			"	3330		75	16-126
Surrogate: 2-Fluorobiphenyl	2690			"	3330		81	28-134
Surrogate: 2,4,6-Tribromophenol	5150			"	5000		103	51-144
Surrogate: Terphenyl-d14	3680			"	3330		111	64-119

Matrix Spike Dup (3080396-MSD1)

Source: P308184-01

Prepared: 08/21/03 Analyzed: 08/27/03

Acenaphthene	3030	8.7	330	ug/kg	3330	ND	91	30-110	9	26	
4-Chloro-3-methylphenol	3190	11	660	"	3330	ND	96	27-109	8	21	
2-Chlorophenol	2580	16	330	"	3330	ND	77	24-98	10	27	
1,4-Dichlorobenzene	2180	15	330	"	3330	ND	65	24-89	9	25	
2,4-Dinitrotoluene	3690	20	330	"	3330	ND	111	35-110	3	15	QM-07
4-Nitrophenol	3280	23	1700	"	3330	ND	98	20-110	0	23	
N-Nitrosodi-n-propylamine	2660	15	330	"	3330	ND	80	23-109	12	31	
Pentachlorophenol	3120	12	1700	"	3330	ND	94	25-123	3	43	
Phenol	2440	12	330	"	3330	ND	73	19-100	8	21	
Pyrene	3550	12	330	"	3330	ND	107	12-131	0	26	
1,2,4-Trichlorobenzene	2750	15	330	"	3330	ND	83	17-110	11	30	
Surrogate: 2-Fluorophenol	3420			"	5000		68	11-120			
Surrogate: Phenol-d6	3720			"	5000		74	16-130			

Sequoia Analytical - Petaluma

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Environmental Resources Management
2525 Natomas Park Drive, Suite 350
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Project: Aerojet RI/FS
Project Number: N/A
Project Manager: Bruce Lewis

P308140
Reported:
09/03/03 12:51

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3080396 - EPA 3550A Sonication

Matrix Spike Dup (3080396-MSD1)

Source: P308184-01

Prepared: 08/21/03 Analyzed: 08/27/03

Surrogate: Nitrobenzene-d5	2790			ug/kg	3330		84	16-126			
Surrogate: 2-Fluorobiphenyl	2990			"	3330		90	28-134			
Surrogate: 2,4,6-Tribromophenol	5150			"	5000		103	51-144			
Surrogate: Terphenyl-d14	3680			"	3330		111	64-119			

Environmental Resources Management
2525 Natomas Park Drive, Suite 350
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Project: Aerojet RI/FS
Project Number: N/A
Project Manager: Bruce Lewis

P308140
Reported:
09/03/03 12:51

Notes and Definitions

J	Estimated value.
Q-LIM	The percent recovery was outside of the control limits. The samples results may still be useful for their intended purpose.
QM-07	The spike recovery was outside control limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
S-LIM	The surrogate recovery was outside control limits. The result may still be useful for its intended purpose.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Chain of Custody Record

No 1117

report files in SVOC analysis

E.T.R. NO:		WORK ORDER NO:		Aerojet 4911.03	
SOURCE SITE NO:		AUGER HOLE NO:			
SAMPLERS (SIGNATURE) <i>Priscilla Williams</i>					
COC SAMPLE ID	FIELD SAMPLE NO.	DEPTH (FT.)	DATE MM/DD/YY	TIME	TYPE OF CONTAINER
11117 A	33D-SB01-1	1	08/07/03	0834	2x6" brass
11117 B	33D-SB01-5	5	08/07/03	0855	2x6" brass
11117 C	33D-SB01-10	10	08/07/03	0937	2x6" brass
11117 D	33D-SB01-15	15	08/07/03	0953	2x6" brass
11117 E	33D-SB01-20	20	08/07/03	1005	2x6" brass
11117 F	33D-SB01-30	30	08/07/03	1050	2x6" brass
11117 G	33D-SB01-D-30	30	08/07/03	1050	2x6" brass
11117 H	33D-SB01-35	35	08/07/03	1115	2x6" brass
11117 I	33D-SB01-40	40	08/07/03	1150	2x6" brass
11117 J	33D-SB01-45E	—	08/07/03	1158	1L amber glass
11117 K	33D-SB01-45	45	08/07/03	1215	2x6" brass
11117 L					
11117 M					
11117 N	COOLER CUSTODY		1/1		
11117 O	NOT IN USE		1/1		
11117 P	COOLER TEMPERATURE		3.6	°C	
11117 Q			1/1		
TOTALS			11		
RELINQUISHED BY: (SIGNATURE) <i>Priscilla Williams</i>		DATE/TIME 8/7/03 1310		RECEIVED BY: (SIGNATURE) <i>John Guener / Secoria</i>	
RELINQUISHED BY: (SIGNATURE) <i>John Guener / Secoria</i>		DATE/TIME 8/8/03 0935		RECEIVED BY: (SIGNATURE) <i>Melissa Segerson / Seg SAC</i>	
RELINQUISHED BY: (SIGNATURE) <i>Melissa Segerson / Seg SAC</i>		DATE/TIME 8/8/03 1230		RECEIVED BY: (SIGNATURE) <i>John Guener / Seg SAC</i>	
COMMENTS: <i>8-8-03 1430</i>				LABORATORY DELIVERED TO: <i>8-8-03 1600</i>	
				METHOD OF SHIPMENT: <i>935</i>	
				LABORATORY QA/QC	
				REMARKS	

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: Aerogel
 REC. BY (PRINT) Steph 3308146
 WORKORDER: _____

DATE Received at Lab: 8-8-03
 TIME Received at Lab: 1600
 LOG IN DATE: 8/8/03

(Drinking water) for regulatory purposes: YES/NO
 (Wastewater) for regulatory purposes: YES/NO

CIRCLE THE APPROPRIATE RESPONSE	LAB SAMPLE #	#	CLIENT ID	DESCRIPTION	SAMPLE MATRIX	DATE SAMPLED	CONDITION (ETC.)
1. Custody Seal(s) Present / <u>Absent</u> Intact / Broken*			33D-5801-1	ML	S	8-7-03	
2. Chain-of-Custody Present / Absent*			5				
3. Traffic Reports or Packing List: Present / Absent			10				
4. Airbill: Airbill / Sticker Present / Absent			15				
5. Airbill #:			20				
6. Sample Labels: Present / Absent			30				
7. Sample IDs: Listed / Not Listed on Chain-of-Custody			5801D-30				
8. Sample Condition: Intact / Broken* / Leaking*			33D-5801-35				
9. Does information on custody reports, traffic reports and sample labels agree?			40				
10. Sample received within hold time:			45				
11. Proper Preservatives used:			MLA				
12. Temp Rec. at Lab: (Acceptance range for samples requiring thermal pres.: 4+/-2°C)			ML				
			S				

* If Circled, contact Project Manager and attach record of resolution.